

Appl. No. 10/604,292  
Amdt. dated January 28, 2005  
Reply to Office action of November 18, 2004

**Amendments to the Specification:**

Please replace paragraph [0002] with the following paragraph:

- 5 The invention relates to a portable device, and more particularly, to a portable device that device that can be automatically turned on by detecting a battery condition.

Please replace paragraph [0004] with the following paragraph:

- 10 Nowadays, when users want to replace a battery in a portable device, they have to store the processed data first before they turn off the electronic device for avoiding any loss or damage of data. In addition, if there is any blunder during the battery-replacing process, such as an improper installation or wrong battery type, turning on the electronic device may lead to non-repairable damage toward the electronic device. Therefore, most  
15 commercialized portable electronic products are equipped with functions for supervising the battery conditions, especially for monitoring the battery-replacing process. For instance, regarding the design of the commercialized PDA personal digital assistant (PDA), some crucial data are stored in a RAM random access memory (RAM) so that the PDA should be constantly provided with power. If the electric power of the PDA is  
20 insufficient, all the stored data will be lost. Therefore, the common PDA uses two batteries, a main battery for providing main power for operations of the PDA and a backup battery ~~for providing~~ for providing power to maintain to maintain the data in the RAM before the main battery is correctly installed in the PDA. Moreover, a monitor device is generally installed in the PDA so that the PDA can be  
25 turned on and then properly operate after the main battery is detected (by the monitor device) to be correctly installed in the PDA.

Please replace paragraph [0006] with the following paragraph:

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Regarding the above-mentioned prior-art technique, after the detachable battery 12 is correctly installed, the operating processor 20 cannot operate immediately. Therefore, the related functions, such as charging and battery-capacity detection, cannot be performed  
5 until a manual button is pressed, which causes ~~inconvenience~~ delay to users.

Please replace paragraph [0007] with the following paragraph:

It is therefore a primary objective of the claimed invention to provide ~~aportable~~ a portable  
10 ~~device~~ that device that can be automatically turned on by detecting a battery condition to solve the above-mentioned problems.

Please replace paragraph [0008] with the following paragraph:

15 According to the claimed invention, ~~aportable~~ a portable device comprises a housing for accommodating a detachable battery, the detachable battery providing main power for operations of the portable device; a sensor ~~installed in~~ installed in the housing for detecting conditions of the detachable battery; an operating processor for controlling operations of the portable device; and a starting  
20 module electrically connected to the sensor for outputting a turn-on signal to the operating processor so as to automatically turn on the portable device after the sensor detects the detachable battery being correctly ~~installed in~~ installed in the housing.

25 Please replace paragraph [0020] with the following paragraph:

Please refer to Fig. 5, which is a flow chart showing the replacement procedure of the battery 52 shown in Fig. 4. After the (original) battery 52 is taken out, the backup battery 62 can contemporarily provide the system power. After the (new) battery 52 is installed in

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the housing 53, the starting module 64 will generate and send the turn-on signal to the operating processor 60. Afterwards, the operating processor 60 will automatically turn on the portable device 50. When being implemented, the practical embodiment of the

5 starting module 64 can refer to Fig. 6. The starting module 64 includes the resistor R, the capacitor C, and other electronic elements. After the sensor 58 detects that the battery 52 is correctly installed in the battery vessel 54, the type of the battery 52 is correct, and the power volume of the battery 52 is sufficient, the sensor 58 will output a first correct signal BAT\_IN. After the battery

10 cover plate 56 is correctly joined with the battery vessel 54, the sensor 58 will output a second correct signal SENSOR\_IN. When both the first correct signal BAT\_IN and the second correct signal SENSOR\_IN are generated, the starting module 64 can then transform the first and the second correct

15 ~~signals~~BAT\_IN signals BAT\_IN, SENSOR\_IN into the turn-on signal mainly according to the RC delay generated by the resistor R and the capacitor C. Finally, the turn-on signal will be transmitted to the operating processor 60 for automatically turning on the portable device 50.